INDEX

Volume 7, 1961

Soviet Physics – Acoustics

INDEX

Volume 7, 1968

Soviet Physics – Acoustics

SOVIET PHYSICS – ACOUSTICS

Volume 7, 1961

A Translation of Akusticheskii Zhurnal

Applied Acoustics, Instruments and Apparatus
Architectural Acoustics
Books and Bibliography
Ear and Hearing
General, Unclassified
Noise
Ultrasonics
  General, unclassified
  Light affected by ultrasonic waves
  Ultrasonic instruments
  Ultrasonic waves in liquids
  Ultrasonic waves in solids
  Physical and chemical effects of ultrasonic waves
Underwater Sound

Waves and Vibrations
  Diffraction, interference, scattering, reflection, echoes, standing waves, streaming
  Propagation, absolute velocity of sound, second sound, refraction, wavelength, doppler effect
  Radiation from vibrating objects, acoustic impedance
  Finite amplitude sound, distortion
  Tubes, resonators, sources
  Wave theory
  Physical effects of sound

Applied Acoustics, Instruments and Apparatus
A Powerful Low Frequency Acoustic Siren. V. V. Vyal'tsev and V. G. Khorguani - 299
A Siren for the Acoustic Coagulation of Aerosols. S. A. Tsedilin and V. M. Tsemlin - 60
A Transposing Arrangement for Generating the Correlation Function of Infrasonic Processes. S. G. Gershman, A. I. Smirnov, and Yu. I. Tuzhilkin - 336
A Two-Tube Acoustic Gas Analyzer. O. I. Kuchmin, L. V. Malkova, and L. A. Sokolova - 169
A Wideband Velocity Microphone. B. S. Zalivadnyi - 74
An Apparatus for Measuring Internal Friction in Solids Over the Range 20-400 kc. A. V. Kharitonov - 83
Danish Instrumentation Exhibit. Yu. Borisov - 98
Sound Generated by a Gas Jet Siren. V. P. Kurkin - 357
Spherical Aberration of Solid Acoustic Focusing Lenses. B. D. Tartakovskii - 278
Steady Forces Arising in a Sound Field. I. N. Kanevskii - 1

Architectural Acoustics
A Case of Total Acoustic Insulation in the Transmission of Sound Through a Layer-Symmetric Wall. S. A. Rybak and B. D. Tartakovskii - 404
An Anechoic Chamber for Acoustical Measurements. A. N. Rivin - 258
Acoustic Insulation of Layered Flooring Against Shock-Type Noise. V. I. Zaborov - 146
Ambiophonic Reverberation. V. V. Furduev - 190
Measurement of the Dynamic Parameters of Sound Insulating Materials. V. I. Zaborov and G. S. Rosin - 72
Sound Absorbers with Perforated Facings. K. A. Velizhanina - 132

Books and Bibliography
Bibliography, Reviews - 99
Books, Brochures, Authors' Abstracts on Acoustics Published 1959-1960 - 102
Books, Brochures, Authors' Abstracts on Acoustics Published 1960-1961 - 320
Noise Reduction. Edited by Leo L. Beranek. S. A. Rybak and B. D. Tartakovskii (Reviewers) - 216
Ultrasonics in Chemical Engineering Processes by A. M. Ginstling and A. A. Baram. M. E. Arkhangel'skii (Reviewer) - 215

Ear and Hearing
Modern Audiometers and Hearing Aids. M. M. Efrussi - 327

General, Unclassified
All-Union Conference on Ultrasonics. L. O. Makarov - 96
Boris Davidovich Tartakovskii (In Honor of His Fiftieth Birthday) - 313

Communication - 105
Danish Instrumentation Exhibit. Yu. Borisov - 98
Foreign Acousticians in Moscow - 319
Foreign Acousticians in Moscow - 413
Lev Aleksandrovich Chernov (In Honor of His Fiftieth Birthday) - 312
Meeting of the Commission on Ultrasonics, State Scientific-Technical Committee of the Council of Ministers of the USSR. D. Yakhimovich - 214
N. N. Andreev – Honored Scientist of the RSFSR - 88
Ninth All-Russian Scientific Conference on the Application of Ultrasonics to the Investigation of Matter. A. A. Glinskii - 315
Notes on Acoustical Activity in the USA. L. M. Brekhovskikh - 88
Scientific-Technical Conference on Physical Methods for the Nondestructive Testing of Materials. D. B. Dianov - 316
Scientific-Technical Seminar in Denmark. I. I. Klyukin - 314
Scientific-Technical Seminars on Industrial Noise Control. V. Myakshin - 413
Second Acoustics Conference in Budapest - 97
Second Acoustics Conference in Budapest - 410
Sergei Nikolaevich Rzhevkin (In Honor of His Seventieth Birthday) - 409
Symposium on Wave Diffraction. B. D. Tartakovskii - 93

Noise
A Transposing Arrangement for Generating the Correlation Function of Infrasonic Processes. S. G. Gershman, A. I. Smirnov, and Yu. I. Tuzhilkin - 336
Noise Reduction. Edited by Leo L. Beranek. S. A. Rybak and B. D. Tartakovskii (Reviewers) - 216
Oscillatory Combustion. O. G. Roginskii - 107
Scientific-Technical Seminars on Industrial Noise Control. V. Myakshin - 413
Spatial Correlation of Plane Bending Waves. A. K. Novikov - 374

Ultrasonics (General, Unclassified)
Absorption of Ultrasound in Monatomic Gases. I. I. Perepechko and V. F. Yakovlev - 211
All-Union Conference on Ultrasonics. L. O. Makarov - 96
Meeting of the Commission on Ultrasonics, State Scientific-Technical Committee of the Council of the Ministers of the USSR. D. Yakhimovich - 214
Ninth All-Russian Scientific Conference on the Application of Ultrasonics to the Investigation of Matter. A. A. Glinskii - 315
Scientific-Technical Conference on Physical Methods for the Nondestructive Testing of Materials. D. B. Dianov - 316
Ultrasonics in Chemical Engineering Processes by A. M. Ginstling and A. A. Baram. M. E. Arkhangel'skii (Reviewer) - 215

Ultrasonics (Light Affected by Ultrasonic Waves)
A Simple Method for the Visualization of Ultrasonic Fields and Streams. I. N. Kanevskii - 352
Certain Aspects of the Operation of an Electron-Acoustic Image Converter. Yu. B. Semmenikov - 56
Infrasonic Normal Modes in the Atmosphere. Yu. L. Gazaryan - 17
Note on the Electroacoustic Converter for Visualizing Acoustic Images. P. K. Oshchepkov, L. D. Rozenberg, and Yu. B. Semennikov - 213

Ultrasonics (Ultrasonic Instruments)
Certain Aspects of the Operation of an Electron-Acoustic Image Converter. Yu. B. Semmenikov - 56
Interferometer Measurements of Ultrasonic Absorption in Gases. I. I. Perepechko and V. F. Yakovlev - 81
Note on the Electroacoustic Converter for Visualizing Acoustic Images. P. K. Oshchepkov, L. D. Rozenberg, and Yu. B. Semennikov - 213
On the Motion of the Abrasive Suspension in Ultrasonic Machining. V. F. Kazantsev and Yu. L. Tisenbaum - 399
Study of the Field Structure of a Cylindrical Ultrasonic Concentrator. I. N. Kanevskii - 29
Theoretical Investigation of Selected Torsional Oscillating Systems. L. O. Makarov - 364
Torsional Ultrasonic Concentrators. A. V. Kharitonov - 310

Ultrasonics (Ultrasonic Waves in Liquids)
A Method for Measuring the Velocity of Ultrasound in Solids and Liquids. I. I. Pervushin and L. P. Filippov - 307
A Simple Method for the Visualization of Ultrasonic Fields and Streams. I. N. Kanevskii - 352
Behavior of Cavitation Bubbles at Large Ultrasonic Intensities. M. G. Sirotyuk - 405
Connection between the Velocity of Sound in a Liquid and in the Saturated Vapor. V. V. Sychev - 275
Experimental Investigation of the Field in One Instance of Antiwaveguide Propagation of Sound. A. N. Barkhatov and S. P. Myasnikov - 11
Extraction of Impurities from Polyethylene in an Ultrasonic Field. A. A. Baram - 297
Investigation of the Velocity of Ultrasound in Some Polysiloxanes. A. Z. Golik and P. F. Cholpan - 23
Investigation of the Velocity of Ultrasound in Water Along the Saturation Line, Including the Critical Region. V. F. Nozdrev, A. P. Osadchii, and A. S. Rubtsov - 305

On "Superviscous" Longitudinal Waves in an Elastic Medium. A. E. Vovk and V. V. Tyumekin - 201
Velocity and Absorption of Sound in Liquids Whose Molecules Have Aromatic Rings. M. S. Tunin, O. Shakirov, and M. I. Shakhparonov - 390
Velocity of Sound in the Benzene-Methyl Alcohol System in the Critical Region. V. F. Nozdrev, and G. D. Tarantova - 402

Ultrasonics (Ultrasonic Waves in Solids)
A Method for Measuring the Velocity of Ultrasound in Solids and Liquids. I. I. Pervushin and L. P. Filippov - 307
A New Ultrasonic Method for Measuring the Elastic Properties of Solids at High Temperatures. B. A. Kalugin and I. G. Mikhailov - 154
Attenuation of Rayleigh Waves on Cylindrical Surfaces. I. A. Viktorov - 13
Cavitation Strength of Some Minerals. M. Ya. Kats - 34
Influence of Heat Treatment and Plastic Deformation on Ultrasonic Absorption in Copper Single Crystals. I. G. Polotskii and V. F. Taborov - 380
On the Motion of the Abrasive Suspension in Ultrasonic Machining. V. F. Kazantsev and Yu. L. Tisenbaum - 399
Reflection of Plane Waves from a Cylindrical Defect. A. S. Golubev - 138
Ultrasonic Absorption near the Curie Point in Rochelle Salt. L. G. Merkulov and E. S. Sokolova - 401
Velocity of Ultrasound in Certain Zinc and Cadmium Amalgams. A. S. Golik, I. F. Kassen, and G. M. Kuchak - 202

Ultrasonics (Physical and Chemical Effects of Ultrasonic Waves)
Extraction of Impurities from Polyethylene in an Ultrasonic Field. A. A. Baram - 297
Influence of Ultrasonic Intensity on the Disperse Phase of an Emulsion at the Instant of Formation. S. A. Neduzhii - 209
Investigation of Emulsification Brought On by Sonic and Ultrasonic Oscillations. S. A. Neduzhii - 221
Investigation of the Dependence on Ultrasonic Intensity in the Process of Emulsification. S. A. Neduzhii - 79
Investigation of the Temperature Behavior of Ultrasonic Machining Rate. V. F. Kazantsev and Yu. L. Tisenbaum - 205
Relaxation of Molecular Vibrational Levels. V. A. Solov'ev - 269
Velocity of Sound in the Benzene-Methyl Alcohol System in the Critical Region. V. F. Nozdrev and G. D. Tarantova - 402

Underwater Sound
Investigation of the Scattering of Sound by Bubbles Generated by an Artificial Wind in Sea Water and the Statistical Distribution of Bubble Sizes. V. P. Glotov, P. A. Kolobaev, and G. G. Neuimin - 341
Model Study of the Field of a Pulse Radiator in the First Effective Shadow Zone of an Underwater Sound Channel. I. I. Shmelev - 86
Sound Fluctuations during Propagation in a Shallow Layer of Water. O. S. Tonakanov - 185

Waves and Vibrations (Diffraction, Interference, Scattering, Reflection, Echoes, Standing Waves, Streaming)
Absorption of Sound Reflected from the Plane Surface of a Solid. R. Ya. Kucherov and T. S. Tsulaya - 76
Characteristics of the Scattering of Sound in a Turbulent Atmosphere. A. S. Monin - 370
Diffraction of a Cylindrical Sound Wave by a Cylinder. E. L. Shenderov - 298
Diffraction of a Cylindrical Surface Wave at the End of a Semi-Infinite Thin-Walled Elastic Tube. Kuan Ting-hua - 245
Effect of Fluctuations in the Incident Wave on the Diffraction Patterns in the Focal Plane of a Lens. Ya. S. Shifrin - 195
Forced Flow Heat Transfer from a Heat Exchange Surface with a Resonance System in the Wall. P. N. Kubanskii - 250
Investigation of the Scattering of Sound by Bubbles Generated by an Artificial Wind in Sea Water and the Statistical Distribution of Bubble Sizes. V. G. Glotov, P. A. Kolobaev, and G. G. Neuimin - 341
On the Limits of Applicability of the Method of Smooth Perturbations in the Problem of Radiation Propagation in a Medium with Inhomogeneities. V. V. Pisareva - 309
Plane Wave Scattering by a Double Periodic Surface of Arbitrary Shape. R. G. Barantsev - 123
Reflection of Plane Waves from a Cylindrical Defect. A. S. Golubev - 138
Special Cases of the Acoustic Streaming of Heated Solids. P. N. Kubanskii - 165
Spherical Aberration of Solid Acoustic Focusing Lenses. B. D. Tartakovskii - 278
Some Cavitation Characteristics of Ship Propellers. I. A. Aleksandrov - 67
Sound Radiation from Elastic Shells Excited by Turbulent Aerodynamic Flow. L. M. Lyamshev - 44
Steady Forces Arising in a Sound Field. I. N. Kanevskii - 1
Symposium on Wave Diffraction. B. D. Tartakovskii - 93
The Phase Jump at the Focus of Spherical Beams of Sound. B. D. Tartakovskii - 179
Transmission and Reflection of Rayleigh Waves by Rounded Edges of Various Radii. I. A. Viktorov - 70
Wave Excitation on a Flat Combed Structure. M. D. Khaskind - 290

Waves and Vibrations (Propagation, Absolute Velocity of Sound, Second Sound, Refraction, Wavelength, Doppler Effect)

A Case of Total Acoustic Insulation in the Transmission of Sound Through a Layer-Symmetric Wall. S. A. Rybak and B. D. Tartakovskii - 404

A New Ultrasonic Method for Measuring the Elastic Properties of Solids at High Temperatures. B. A. Kalugin and I. G. Mikhailov - 154

Acoustic Intensity Measurements in a Laminar Medium Bounded by a Periodic Surface. A. N. Barkhatov, Yu. N. Cherkashin, and B. Ya. Yaskov - 127

Attenuation of Rayleigh Waves on Cylindrical Surfaces. I. A. Viktorov - 13

Damping of Rayleigh Waves in an Elastic Layer Above a Half-Space. N. N. Egorov - 300

Influence of Motion of the Medium on the Propagation of Sound in a Waveguide with Volume Resonators in the Walls. A. D. Lapin - 360

Irregular Acoustic Waveguides. V. V. Shevchenko - 392

On the Limits of Applicability of the Method of Smooth Perturbations in the Problem of Radiation Propagating in a Medium with Inhomogeneities. V. V. Pisareva - 309

On the Theory of Irregular Acoustic Waveguides. B. Z. Katsenelenbaum - 159

Propagation of Sound in a Waveguide Having Side Branch Resonators. A. D. Lapin - 77

Sound Fluctuations during Propagation in a Shallow Layer of Water. O. S. Tonakanov - 185

Sound Propagation in a Waveguide with Side Branches and Volume Resonators in the Walls. A. D. Lapin - 171

Sound Radiation from Plates and Shells in Water. L. M. Lyamshev and S. N. Rudakov - 302

Spatial Correlation of Plane Bending Waves. A. K. Novikov - 374

Statistical Analysis of an Acoustic Field in the Atmosphere to Determine the Characteristics of Atmospheric Turbulence. V. A. Zverev and I. K. Spiridonova - 346

The Impedances of Dissipative Layered Plates Executing Symmetric or Antisymmetric Vibrations. S. A. Rybak and B. D. Tartakovskii - 384

Theoretical Investigation of Selected Torsional Oscillating Systems. L. O. Makarov - 364

Transmission of Flexural Waves Through an Arbitrary Intermediate Rod. V. P. Maslov and B. D. Tartakovskii - 50

Velocity of Sound in Mixtures Containing Suspended Particles. Ya. Z. Kleiman - 207

Waves and Vibrations (Radiation from Vibrating Objects, Acoustic Impedance)

Investigation of Methods for Exciting Rayleigh Waves. I. A. Viktorov - 236

Measurement of the Dynamic Parameters of Sound Insulating Materials. V. I. Zaborov and G. S. Rosin - 72

On the Theory of Acoustic Surface-Wave Excitation Kuan Ting-hua - 143

Sound Absorbers with Perforated Facings. K. A. Velizhanina - 132

Sound Radiation from Plates and Shells in Water. L. M. Lyamshev and S. N. Rudakov - 302

Transient Processes in the Acoustic Fields Generated by a Piston Membrane of Arbitrary. O. G. Kozina and G. I. Makarov - 39

Transmission of Bending Waves Through an Intermediate Rod with Losses. V. P. Maslov and B. D. Tartakovskii - 176

Transmission of Flexural Waves Through an Arbitrary Intermediate Rod. V. P. Maslov and B. D. Tartakovskii - 50

Wave Excitation on a Flat Combed Structure. M. D. Khaskind - 290

Waves and Vibrations (Finite Amplitude Sound, Distortion)

Experimental Investigation of the Field in One Instance of Antiwaveguide Propagation of Sound. A. N. Barkhatov and S. P. Myasnikov - 11

Waves and Vibrations (Tubes, Resonators, Sources)

Degenerate Oscillations and Doublet Splitting of Natural Frequencies of Piezoresonators. B. A. Finagin - 284

Forced Flow Heat Transfer from a Heat Exchange Surface with a Resonance System in the Wall. P. N. Kubanskii - 250

Influence of Motion of the Medium on the Propagation of Sound in a Waveguide with Volume Resonators in the Walls. A. D. Lapin - 360

Model Study of the Field of a Pulse Radiator in the First Effective Shadow Zone of an Underwater Sound Channel. I. I. Shmelev - 86

On the Field of a Point Radiator in a Laminar-Inhomogeneous Medium Bounded by an Uneven Surface. Yu. P. Lysanov - 255

Oscillatory Combustion. O. G. Roginskii - 107

Sound Generated by a Gas Jet Siren. V. P. Kurkin - 357

The "Grain of Sand" Method for Determining the Piezomodulus of a Crystal. A. D. Brodskii and A. G. Sergeev - 69

Waves and Vibrations (Wave Theory)

Acoustic Insulation of Layered Flooring Against Shock-Type Noise. V. I. Zaborov - 146

Investigation of Methods for Exciting Rayleigh Waves. I. A. Viktorov - 236

Irregular Acoustic Waveguides. V. V. Shevchenko - 392

Nonlinear Distortion of Plane Waves in a Nondissipative Medium. L. K. Zarembo - 149

On the Field of a Point Radiator in a Laminar- Inhomogeneous Medium Bounded by an Uneven Surface. Yu. P. Lysanov - 255

On the Theory of Acoustic Surface-Wave Excitation. Kuan Ting-hua - 143

Study of the Field Structure of a Cylindrical Ultrasonic Concentrator. I. N. Kanevskii - 29

The Impedances of Dissipative Layered Plates Executing Symmetric or Antisymmetric Vibrations. S. A. Rybak and B. D. Tartakovskii - 384

The Phase Jump at the Focus of Spherical Beams of Sound. B. D. Tartakovskii - 179

Transmission of Bending Waves Through an Intermediate Rod with Losses. V. P. Maslov and B. D. Tartakovskii - 176

Width of a Sawtooth Wavefront. E. V. Romanenko - 82

Waves and Vibrations (Physical Effects of Sound)

A Siren for the Acoustic Coagulation of Aerosols. S. A. Tsedilin and V. M. Tsemlin - 60

A Wideband Velocity Microphone. B. S. Zalivadnyi - 74

Behavior of Cavitation Bubbles at Large Ultrasonic Intensities. M. G. Sirotyuk - 405

On the Behavior of Aerosol Particles in an Acoustic Field. L. I. Buravov and O. K. Eknadiosyants - 398

Some Cavitation Characteristics of Ship Propellers. I. A. Aleksandrov - 67

SOVIET PHYSICS – ACOUSTICS

Volume 7, 1961

A Translation of Akusticheskii Zhurnal

Aleksandrov, I. A., Some Cavitation Characteristics of Ship Propellers - 67

Arkhangel'skii, M. E. (Reviewer). Ultrasonics in Chemical Engineering Processes by A. M. Ginstling and A. A. Baram - 215

Baram, A. A., Extraction of Impurities from Polyethylene in an Ultrasonic Field - 297

Barantsev, R. G., Plane Wave Scattering by a Double Periodic Surface of Arbitrary Shape - 123

Barkhatov, A. N., Yu. N. Cherkashin, and B. Ya. Yashkov, Acoustic Intensity Measurements in a Laminar Medium Bounded by a Periodic Surface - 127

Barkhatov, A. N. and S. P. Myashnikov, Experimental Investigation of the Field in One Instance of Antiwaveguide Propagation of Sound - 11

Borisov, Yu., Danish Instrumentation Exhibit - 98

Brekhovskikh, L. M., Notes on Acoustical Activity in the USA - 88

Brodskii, A. D. and A. G. Sergeev, The "Grain of Sand" Method for Determining the Piezomodulus of a Crystal - 69

Buravov, L. I. and O. K. Éknadiosyants, On the Behavior of Aerosol Particles in an Acoustic Field - 398

Cherkashin, Yu. N., see Barkhatov, A. N. - 127

Cholpan, P. F., see Golik, A. Z. - 23

Dianov, D. B., Scientific-Technical Conference on Physical Methods for the Nondestructive Testing of Materials - 316

Éfrussi, M. M., Modern Audiometers and Hearing Aids - 327

Egorov, N. N., Damping of Rayleigh Waves in an Elastic Layer Above a Half-Space - 300

Éknadiosyants, O. K., see Buravov, L. I. - 398

Filippov, L. P., see Pervushin, I. I. - 307

Finagin, B. A., Degenerate Oscillations and Doublet Splitting of Natural Frequencies of Piezoresonators - 284

Furduev, V. V., Ambiophonic Reverberation - 190

Gazaryan, Yu. L., Infrasonic Normal Modes in the Atmosphere - 17

Gershman, S. G., A. I. Smirnov, and Yu. I. Tuzhilkin, A Transposing Arrangement for Generating the Correlation Function of Infrasonic Processes - 336

Glinskii, A. A., Ninth All-Russian Scientific Conference on the Application of Ultrasonics to the Investigation of Matter - 315

Glotov, V. P., P. A. Kolobaev, and G. G. Neuimin, Investigation of the Scattering of Sound by Bubbles Generated by an Artificial Wind in Sea Water and the Statistical Distribution of Bubble Sizes - 341

Golik, A. Z. and P. F. Cholpan, Investigation of the Velocity of Ultrasound in Some Polysiloxanes - 23

Golik, A. Z., I. F. Kassen, and G. M. Kuchak, Velocity of Ultrasound in Certain Zinc and Cadmium Amalgams - 202

Golubev, A. S., Reflection of Plane Waves from a Cylindrical Defect - 138

Kalugin, B. A. and I. G. Mikhailov, A New Ultrasonic Method for Measuring the Elastic Properties of Solids at High Temperatures - 154

Kanevskii, I. N., Steady Forces Arising in a Sound Field - 1

Kanevskii, I. N., Study of the Field Structure of a Cylindrical Ultrasonic Concentrator - 29

Kanevskii, I. N., A Simple Method for the Visualization of Ultrasonic Fields and Streams - 352

Kassen, I. F., see Golik, A. Z. - 202

Kats, M. Ya., Cavitation Strength of Some Minerals - 34

Katsenelenbaum, B. Z., On the Theory of Irregular Acoustic Waveguides - 159

Kazantsev, V. F. and Yu. L. Tisenbaum, Investigation of the Temperature Behavior of Ultrasonic Machining Rate - 205

Kazantsev, V. F. and Yu. L. Tisenbaum, On the Motion of the Abrasive Suspension in Ultrasonic Machining - 399

Kharitonov, A. V., An Apparatus for Measuring Internal Friction in Solids Over the Range 20-400 kc - 83

Kharitonov, A. V., Torsional Ultrasonic Concentrators - 310

Khaskind, M. D., Wave Excitation on a Flat Combed Structure - 290

Khorguani, V. G., see Vyal'tsev, V. V. - 299

Kleiman, Ya. Z., Velocity of Sound in Mixtures Containing Suspended Particles - 207

Klyukin, I. I., Scientific-Technical Seminar in Denmark - 314
Kolobaev, P. A., see Glotov, V. P. - 341
Kozina, O. G. and G. I. Makarov, Transient Processes in the Acoustic Fields Generated by a Piston Membrane of Arbitrary Shape - 39
Kuan Ting-hua, On the Theory of Acoustic Surface-Wave Excitation - 143
Kuan Ting-hua, Diffraction of a Cylindrical Surface Wave at the End of a Semi-Infinite Thin-Walled Elastic Tube - 245
Kubanskii, P. N., Special Cases of the Acoustic Streaming of Heated Solids - 165
Kubanskii, P. N., Forced Flow Heat Transfer from a Heat Exchange Surface with a Resonance System in the Wall - 250
Kuchak, G. M., see Golik, A. Z. - 202
Kucherov, R. Ya. and T. S. Tsulaya, Absorption of Sound Reflected from the Plane Surface of a Solid - 76
Kuchmin, O. I., L. V. Malkova, and L. A. Sokolova, A Two-Tube Acoustic Gas-Analyzer - 169
Kurkin, V. P., Sound Generated by a Gas Jet Siren - 357

Lapin, A. D., Propagation of Sound in a Waveguide Having Side Branch Resonators - 77
Lapin, A. D., Sound Propagation in a Waveguide with Side Branches and Volume Resonators in the Walls - 171
Lapin, A. D., Influence of Motion of the Medium on the Propagation of Sound in a Waveguide with Volume Resonators in the Walls - 360
Lyamshev, L. M., Sound Radiation from Elastic Shells Excited by Turbulent Aerodynamic Flow - 44
Lyamshev, L. M. and S. N. Rudakov, Sound Radiation from Plates and Shells in Water - 302
Lysanov, Yu. P., On the Field of a Point Radiator in a Laminar-Inhomogeneous Medium Bounded by an Uneven Surface - 255

Makarov, G. I., see Kozina, O. G. - 39
Makarov, L. O., All-Union Conference on Ultrasonics - 96
Makarov, L. O., Theoretical Investigation of Selected Torsional Oscillating Systems - 364
Malkova, L. V., see Kuchmin, O. I. - 169
Maslov, V. P. and B. D. Tartakovskii, Transmission of Flexural Waves Through an Arbitrary Intermediate Rod - 50
Maslov, V. P. and B. D. Tartakovskii, Transmission of Bending Waves Through an Intermediate Rod with Losses - 176
Merkhulov, L. G. and E. S. Sokolova, Ultrasonic Absorption Near the Curie Point in Rochelle Salt - 401
Mikhailov, I. G., see Kalugin, B. A. - 154
Monin, A. S., Characteristics of the Scattering of Sound in a Turbulent Atmosphere - 370
Myakshin, V., Scientific-Technical Seminars on Industrial Noise Control - 413
Myasnikov, S. P., see Barkhatov, A. N. - 11

Neduzhii, S. A., Investigation of the Dependence on Ultrasonic Intensity in the Process of Emulsification - 79
Neduzhii, S. A., Influence of Ultrasonic Intensity on the Disperse Phase of an Emulsion at the Instant of Formation - 209
Neduzhii, S. A., Investigation of Emulsification Brought on by Sonic and Ultrasonic Oscillations - 221
Neuimin, G. G., see Glotov, V. P. - 341
Novikov, A. K., Spatial Correlation of Plane Bending Waves - 374
Nozdrev, V. F., A. P. Osadchii, and A. S. Rubtsov, Investigation of the Velocity of Ultrasound in Water Along the Saturation Line, Including the Critical Region - 305
Nozdrev, V. F. and G. D. Tarantova, Velocity of Sound in the Benzene-Methyl Alcohol System in the Critical Region - 402

Osadchii, A. P., see Nozdrev, V. F. - 305
Oshchepkov, P. K., L. D. Rozenberg, and Yu. B. Semennikov, Note on the Electroacoustic Converter for Visualizing Acoustic Images - 213

Perepechko, I. I. and V. F. Yakovlev, Interferometer Measurement of Ultrasonic Absorption in Gases - 81
Perepechko, I. I. and V. F. Yakovlev, Absorption of Ultrasound in Monatomic Gases - 211
Pervushin, I. I. and L. P. Filippov, A Method for Measuring the Velocity of Ultrasound in Solids and Liquids - 307
Pisareva, V. V., On the Limits of Applicability of the Method of Smooth Perturbations in the Problem of Radiation Propagating in a Medium with Inhomogeneities - 309
Polotskii, I. G. and V. F. Taborov, Influence of Heat Treatment and Plastic Deformation on Ultrasonic Absorption in Copper Single Crystals - 380

Rivin, A. N., An Anechoic Chamber for Acoustical Measurements - 258
Roginskii, O. G., Oscillatory Combustion - 107
Romanenko, E. V., Width of a Sawtooth Wavefront - 82
Rosin, G. S., see Zaborov, V. I. - 72
Rozenberg, L. D., see Oshchepkov, P. K. - 213
Rubtsov, A. S., see Nozdrev, V. F. - 305
Rudakov, S. N., see Lyamshev, L. M. - 302

Rybak, S. A. and B. D. Tartakovskii (Reviewers). Noise Reduction Edited by Leo L. Beranek - 216
Rybak, S. A. and B. D. Tartakovskii, The Impedances of Dissipative Layered Plates Executing Symmetric or Antisymmetric Vibrations - 384
Rybak, S. A. and B. D. Tartakovskii, A Case of Total Acoustic Insulation in the Transmission of Sound Through a Layer-Symmetric Wall - 404

Semmenikov, Yu. B., Certain Aspects of the Operation of an Electron-Acoustic Image Converter - 56
Semennikov, Yu. B., see Oshchepkov, P. K. - 213
Sergeev, A. G., see Brodskii, A. D. - 69
Shakhparonov, M. I., see Tunin, M. S. - 390
Shakirov, O., see Tunin, M. S. - 390
Shenderov, E. L., Diffraction of a Cylindrical Sound Wave by a Cylinder - 293
Shevchenko, V. V., Irregular Acoustic Waveguides - 392
Shifrin, Ya. S., Effect of Fluctuations in the Incident Wave on the Diffraction Patterns in the Focal Plane of a Lens - 195
Shmelev, I. I., Model Study of the Field of a Pulse Radiator in the First Effective Shadow Zone of an Underwater Sound Channel - 86
Sirotyuk, M. G., Behavior of Cavitation Bubbles at Large Ultrasonic Intensities - 405
Smirnov, A. I., see Gershman, S. G. - 336
Sokolova, E. S., see Merkulov, L. G. - 401
Sokolova, L. A., see Kuchmin, O. I. - 169
Solov'ev, V. A., Relaxation of Molecular Vibrational Levels - 269
Spirdonova, I. K., see Zverev, V. A. - 346
Sychev, V. V., Connection between the Velocity of Sound in a Liquid and in the Saturated Vapor - 275

Taborov, V. F., see Polotskii, I. G. - 380
Tarantova, G. D., see Nozdrev, V. F. - 402
Tartakovskii, B. D., Symposium on Wave Diffraction - 93
Tartakovskii, B. D., The Phase Jump at the Focus of Spherical Beams of Sound - 179
Tartakovskii, B. D., Spherical Aberration of Solid Acoustic Focusing Lenses - 278
Tartakovskii, B. D., see Maslov, V. P. - 50
Tartakovskii, B. D., see Maslov, V. P. - 176
Tartakovskii, B. D., see Rybak, S. A. - 216
Tartakovskii, B. D., see Rybak, S. A. - 384
Tartakovskii, B. D., see Rybak, S. A. - 404

Tisenbaum, Yu. L., see Kazantsev, V. F. - 205
Tisenbaum, Yu. L., see Kazantsev, V. F. - 399
Tonakanov, O. S., Sound Fluctuations during Propagation in a Shallow Layer of Water - 185
Tsedilin, S. A. and V. M. Tsemlin, A Siren for the Acoustic Coagulation of Aerosols - 60
Tsemlin, V. M., see Tsedilin, S. A. - 60
Tsulaya, T. S., see Kucherov, R. Ya. - 76
Tunin, M. S., O. Shakirov, and M. I. Shakhparonov, Velocity and Absorption of Sound in Liquids Whose Molecules have Aromatic Rings - 390
Tuzhilkin, Yu. I., see Gershman, S. G. - 336
Tyumekin, V. V., see Vovk, A. E. - 201

Velizhanina, K. A., Sound Absorbers with Perforated Facings - 132
Viktorov, I. A., Attenuation of Rayleigh Waves on Cylindrical Surfaces - 13
Viktorov, I. A., Transmission and Reflection of Rayleigh Waves by Rounded Edges of Various Radii - 70
Viktorov, I. A., Investigation of Methods for Exciting Rayleigh Waves - 236
Vovk, A. E. and V. V. Tyumekin, On "Superviscous" Longitudinal Waves in an Elastic Medium - 201
Vyal'tsev, V. V. and V. G. Khorguani, A Powerful Low Frequency Acoustic Siren - 299

Yakhimovich, D., Meeting of the Commission on Ultrasonics, State Scientific-Technical Committee of the Council of Ministers of the USSR - 214
Yakovlev, V. F., see Perepechko, I. I. - 81
Yakovlev, V. F., see Perepechko, I. I. - 211
Yashkov, B. Ya., see Barkhatov, A. N. - 127

Zaborov, V. I., Acoustic Insulation of Layered Flooring Against Shock-Type Noise - 146
Zaborov, V. I. and G. S. Rosin, Measurements of the Dynamic Parameters of Sound Insulating Materials - 72
Zalivadnyi, B. S., A Wideband Velocity Microphone - 74
Zarembo, L. K., Nonlinear Distortion of Plane Waves in a Nondissipative Medium - 149
Zverev, V. A. and I. K. Spiridonova, Statistical Analysis of an Acoustic Field in the Atmosphere to Determine the Characteristics of Atmospheric Turbulenc - 346